Amendments to the Specification:

Please replace paragraph [0041] with the following rewritten paragraph:

[0041] The pressure detecting tube lb, which functions as a pressure detecting section in the noninvasive sensor 1, must have proper elasticity so that the inner pressure of the pressure detecting tube lb changes in response to the fluctuation range of pressure caused by the biosignals. Also, the capacity of a hollowed part in the tube lb should be selected properly so that a pressure change inside the tube lb is transmitted to the minute differential pressure sensor la at a proper response speed. When the pressure detecting tube lb cannot have the proper elasticity and hollowed part capacity simultaneously, a core wire of proper thickness may be inserted into the hollowed part and extended along the entire length of the tube lb to secure the proper capacity ~~of the~~ for the hollowed part. Inserting the core wire of the proper thickness into the pressure detecting tube lb also prevents such trouble that the tube lb is completely crushed and becomes unable to transmit the pressure change to the minute differential pressure sensor la.

Please replace paragraph [0046] with the following rewritten paragraph:

[0046] When the passing band of the signal amplifying/shaping section 2 is set within the range of 7 Hz to 30 Hz as in the exemplary embodiment, most ~~of noises~~ noises not caused by the subject can be attenuated, and the passed heartbeat signals and pulse signals are sent to an automatic gain control section 3. Although the respiratory signals are cut off, the presence or absence of biosignals can be confirmed without the respiratory signals, as the respiratory signals are sometimes discontinued when a non-breathing time occurs, so that the above passing band setting presents no trouble in measuring the intensity of biosignals.

Please replace paragraph [0055] with the following rewritten paragraph:

[0055] Thus, according to the method for measuring biosignal ~~intensity~~ intensity, the above problem is solved by attenuating signals caused by vibrations other than the subject,

which are included in output signals from the noninvasive sensor 1 for detecting biosignals, at the signal amplifying/shaping section 2 and calculating the accurate intensity of biosignals at the biosignal intensity calculating section 4. The signal amplifying/shaping section 2 is set to attenuate signals in a bandwidth other than that ranging from 7 Hz to 30 Hz. A bandwidth set for attenuation, however, is not limited to the above bandwidth, and its range may be changed if the intensity of biosignals can be measured after all.

Please replace paragraph [0063] with the following rewritten paragraph:

[0063] If the calculation gives the biosignal intensity F of F (20) or lower, output from the non-bedding detecting sensor 11 is checked. When the output from the non-bedding detecting sensor 11 is not observed, it indicates that a given weight is not applied to the bed, which leads to a judgment that the subject is out of the bed. At this time, the procedure returns to the start of the flowchart. On the other hand, when the output from the non-bedding detecting sensor 11 is observed, it indicates that the biosignal intensity F is at a low level of F (20) or lower despite the fact that the subject is in the bed. This leads to a judgment of 'biosignal stoppage', that is, the abnormal state of the subject, at which an alarm is emitted from an alarm device ~~12 to~~ 7 to report the abnormal state to the prescribed personnel, institution, or post.

Please replace paragraph [0064] with the following rewritten paragraph:

[0064] ~~FIGs.~~ FIGS. 7A-7D are graphs showing the biosignal output actually measured according to the biosignal intensity measuring method and the bedding state judging method. FIG. 7A shows the waveform of the AGC output of a noninvasive sensor signal.

Please replace paragraph [0065] with the following rewritten paragraph:

[0065] FIG. 7B is a graph showing the signal intensity Aa given by calculating the intensity of signals from the noninvasive sensor 1 at the signal intensity calculating section 4, where the signal intensity Aa is normalized to have a maximum value ~~of 1~~ of one. FIG. 7C is a

graph showing a signal from which the biosignal intensity Aao under a non-loaded condition is deducted.

Please replace paragraph [0066] with the following rewritten paragraph:

[0066] FIG. 7D represents a signal output for judging the presence or absence of biosignals, which is a result of a judgment made in accordance to the flowchart shown in FIG. 4. If the signal output reaches 1,reaches one, it is judged that biosignals are present. The signal output shown in FIG. 7D is combined with output from the non-bedding detecting sensor 11 for judgment about a subject's being in or out of bed and for monitoring of the abnormal state of the subject according to the flowchart shown in FIG. 5.